DOCTF' 97TT260

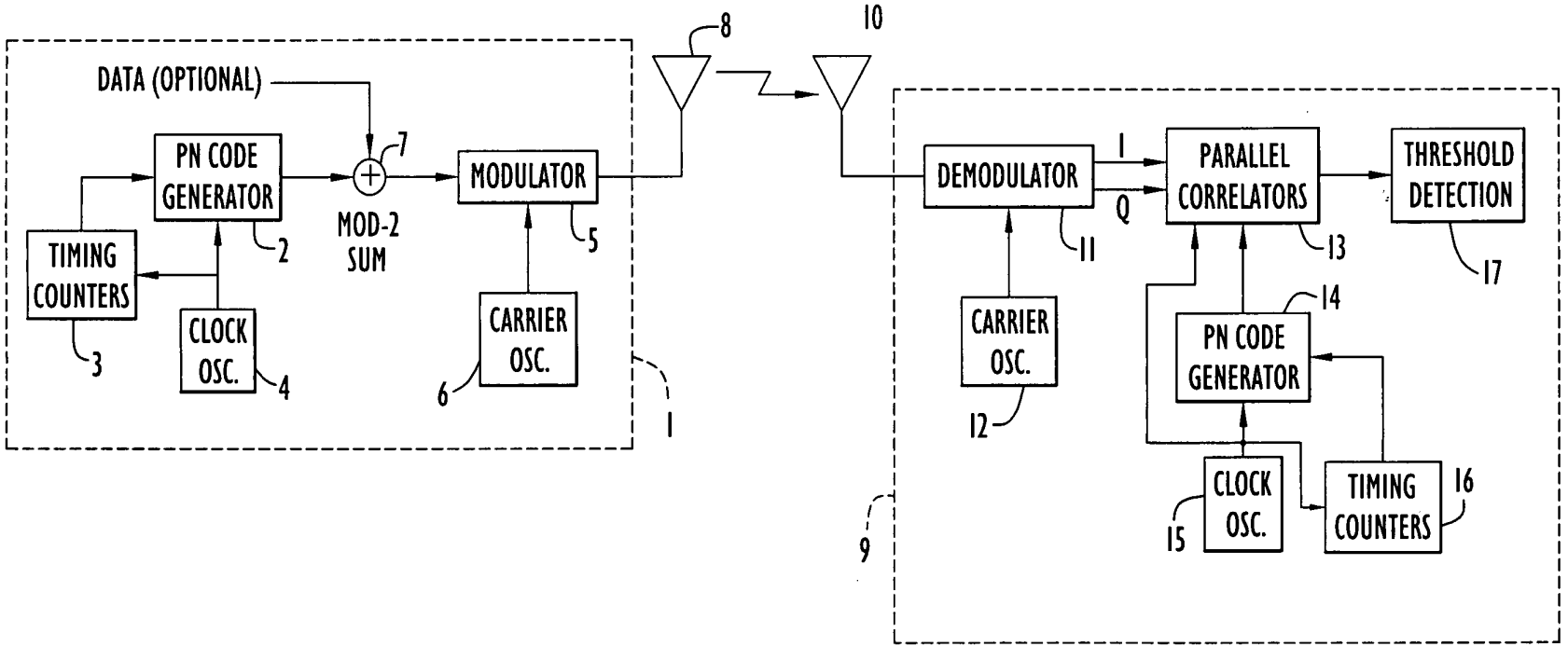


FIG.1
(PRIOR ART)

0057F"8CFF260

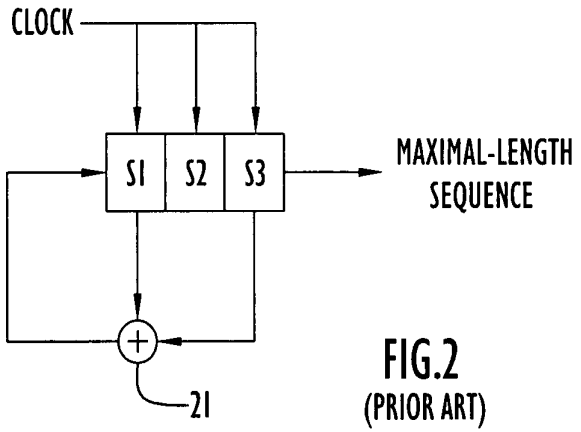


FIG.2
(PRIOR ART)

0 1 2 3 4 5 6 0 1 2 3 4 5 6 0 1 2 3 4 5 6 0 1 2 3 4 5 6 0 1 2 3 4 5 6 0 1 2 3 4 5 6 0 1 2 3 4 5 6

FIG.3A

0 0 1 0 1 1 1 0 0 1 0 1 1 1 0 0 1 0 1 1 1 0 0 1 0 1 1 1 0 0 1 0 1 1 1 0 0 1 0 1 1 1 0 0 1 0 1 1 1

FIG.3B

FIG.4A

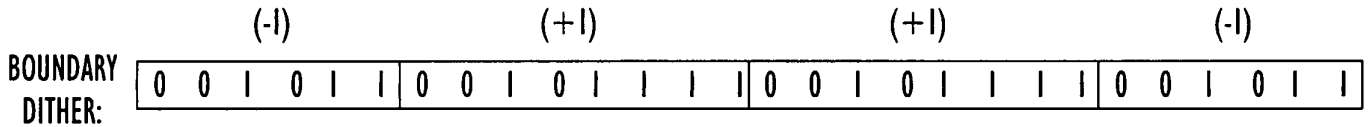


FIG.4B

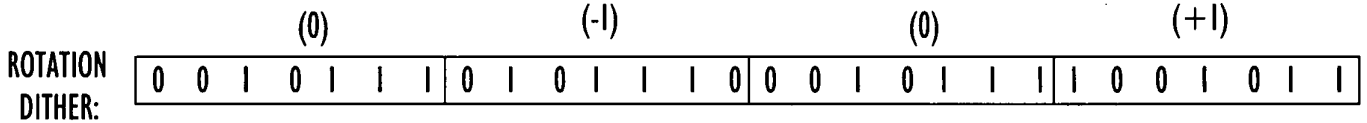
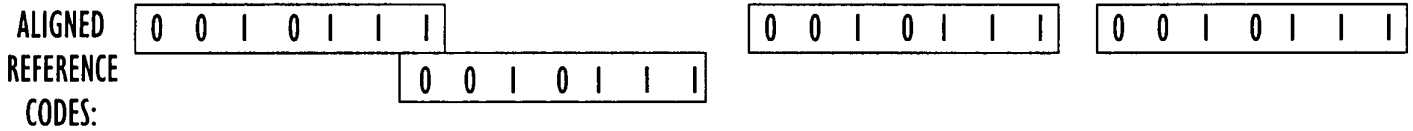


FIG.4C



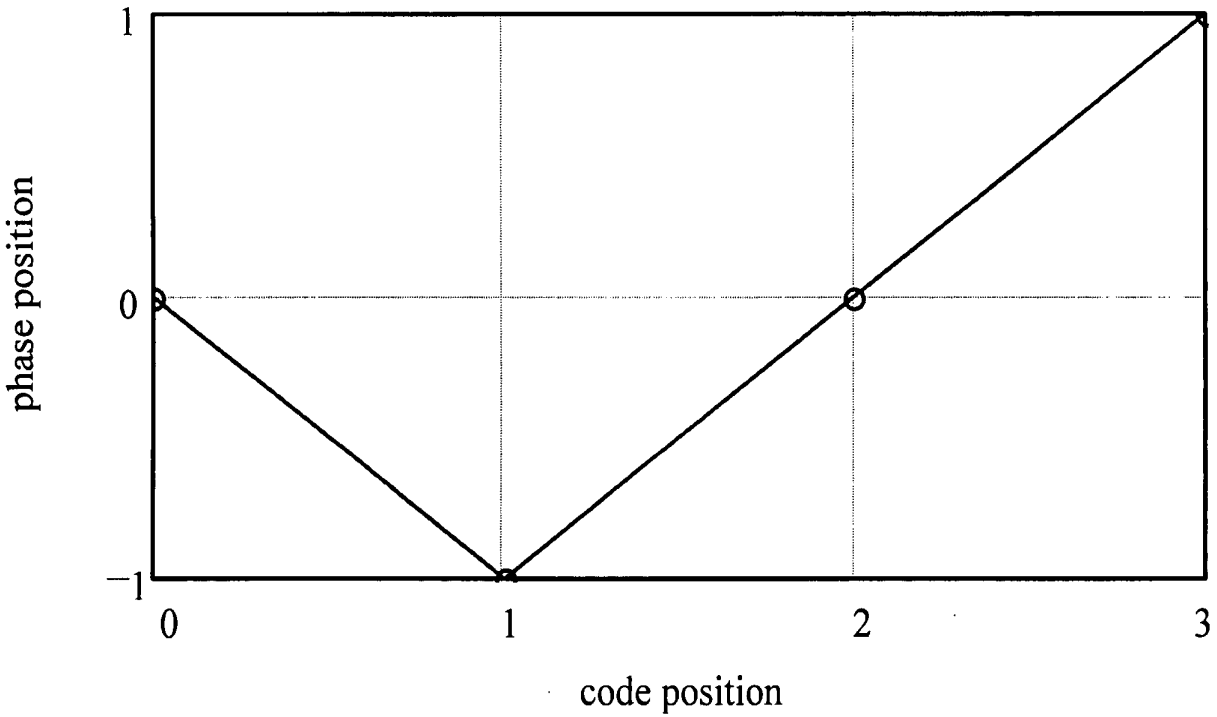


FIG.5

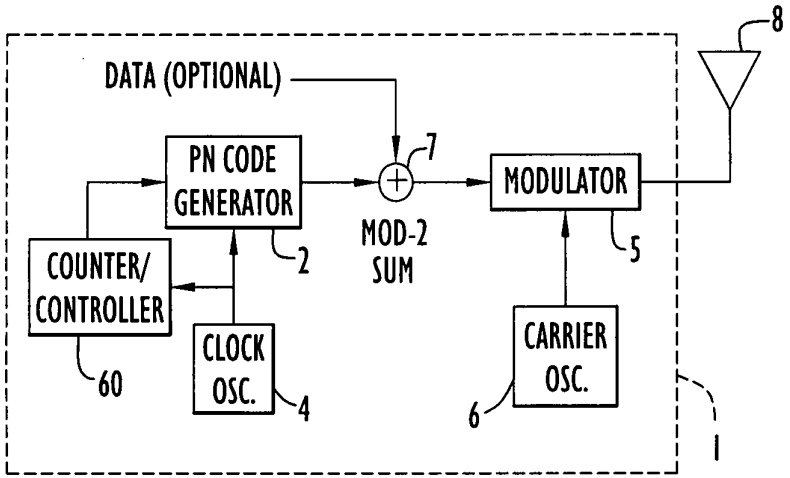

DATA (OPTIONAL)
PN CODE GENERATOR
2
7
MOD-2 SUM
MODULATOR
5
8
COUNTER/ CONTROLLER
60
CLOCK OSC.
4
CARRIER OSC.
6
1

FIG.6

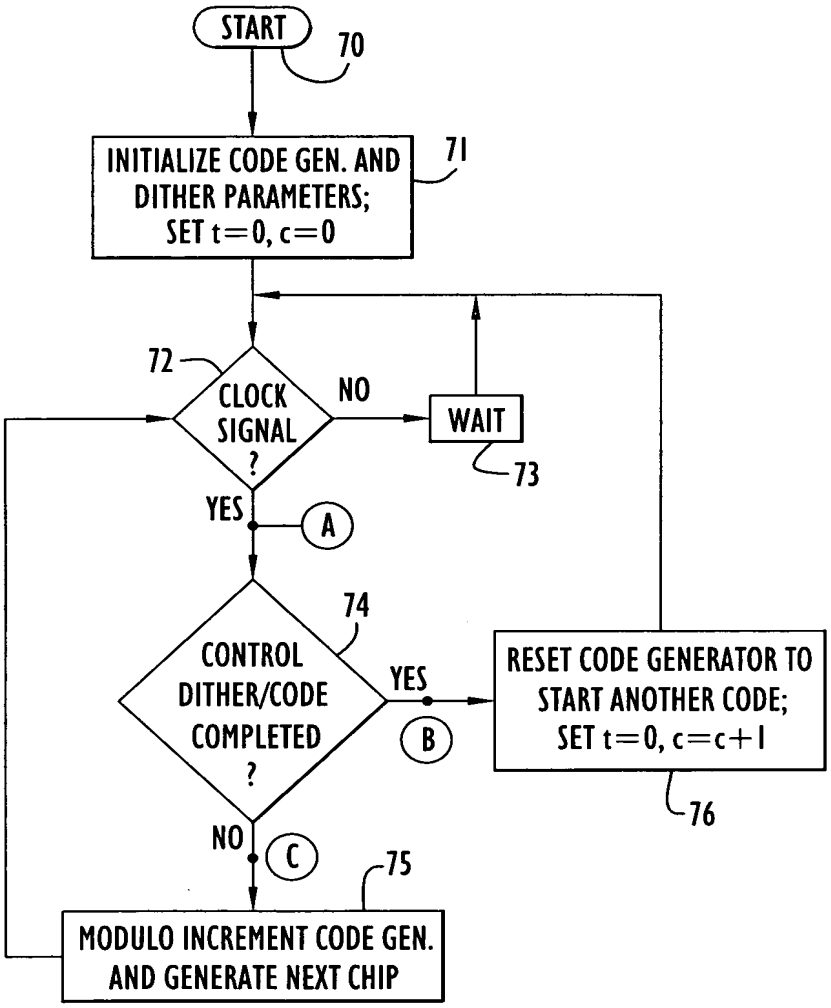

START
70
INITIALIZE CODE GEN. AND DITHER PARAMETERS; SET t=0, c=0
71
72
CLOCK SIGNAL ?
NO
WAIT
73
YES
A
74
CONTROL DITHER/CODE COMPLETED ?
YES
B
RESET CODE GENERATOR TO START ANOTHER CODE; SET t=0, c=c+1
76
NO
C
75
MODULO INCREMENT CODE GEN. AND GENERATE NEXT CHIP

FIG.7

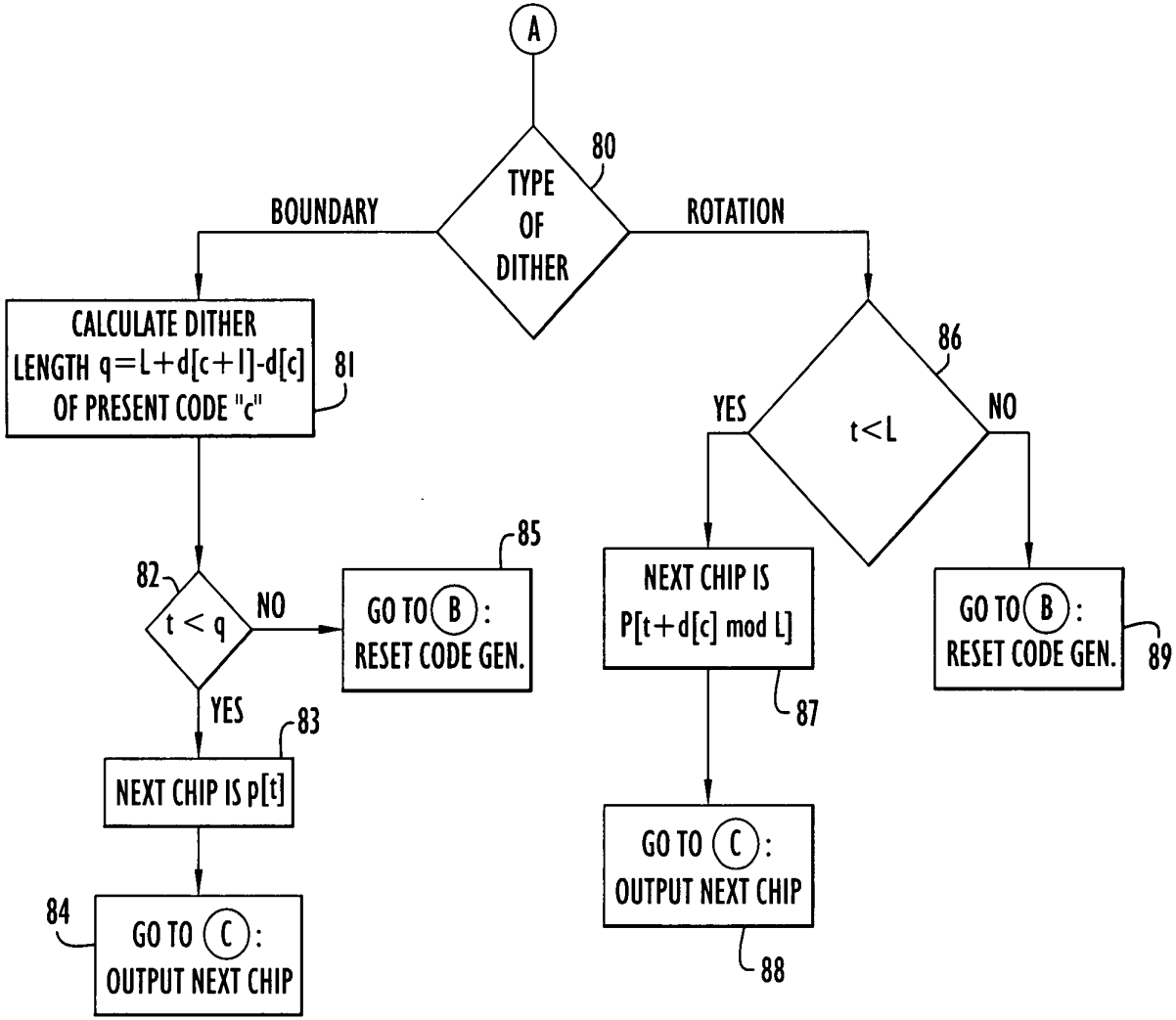

A
TYPE OF DITHER
80
BOUNDARY
ROTATION
CALCULATE DITHER LENGTH q=L+d[c+1]-d[c] OF PRESENT CODE "c"
81
82
t < q
NO
YES
GO TO (B): RESET CODE GEN.
85
NEXT CHIP IS p[t]
83
GO TO (C): OUTPUT NEXT CHIP
84
86
t<L
YES
NO
NEXT CHIP IS P[t+d[c] mod L]
87
GO TO (B): RESET CODE GEN.
89
GO TO (C): OUTPUT NEXT CHIP
88

FIG.8

FIG.9A

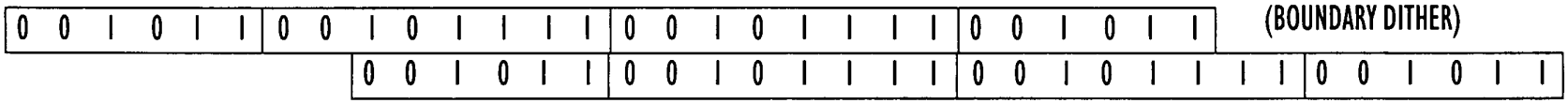
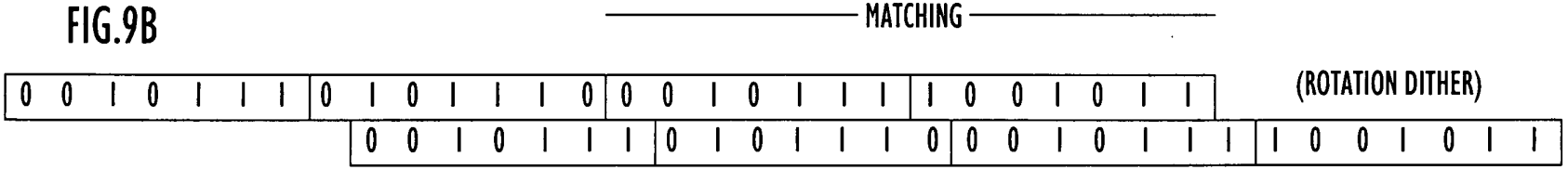


FIG.9B



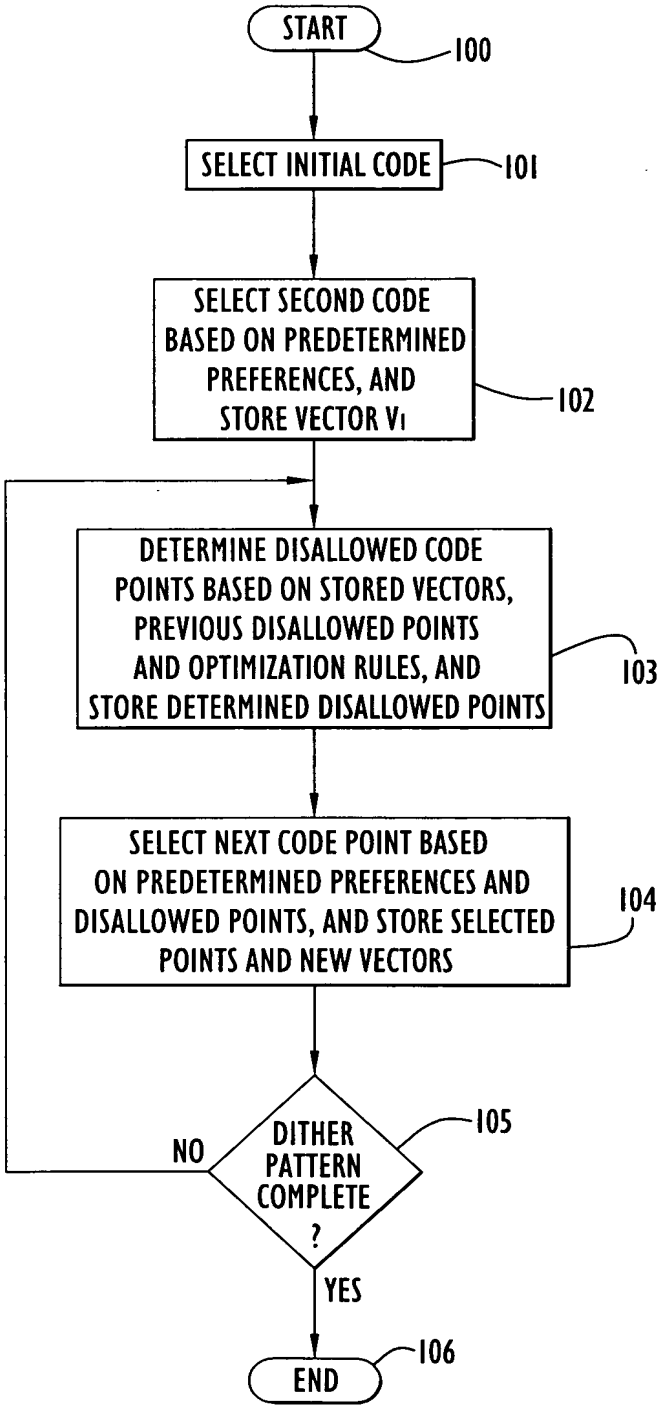

START
100
SELECT INITIAL CODE
101
SELECT SECOND CODE BASED ON PREDETERMINED PREFERENCES, AND STORE VECTOR V1
102
DETERMINE DISALLOWED CODE POINTS BASED ON STORED VECTORS, PREVIOUS DISALLOWED POINTS AND OPTIMIZATION RULES, AND STORE DETERMINED DISALLOWED POINTS
103
SELECT NEXT CODE POINT BASED ON PREDETERMINED PREFERENCES AND DISALLOWED POINTS, AND STORE SELECTED POINTS AND NEW VECTORS
104
DITHER PATTERN COMPLETE ?
105
NO
YES
END
106

FIG.10A

CODE NO.	SELECTED POINTS	VECTORS	DISALLOWED POINTS
0	(0,0)		
1	(1,0)	V_1	(2,0)
2	(2,1)	V_2, V_3	(1,1) (3,1) (3,2) (4,2)
3	(3,0)	V_4	(1,-1) (2,-1) (4,0) (4,-1) (4,1) (5,0) (5,1) (6,0)
⋮	⋮	⋮	⋮

FIG.10B

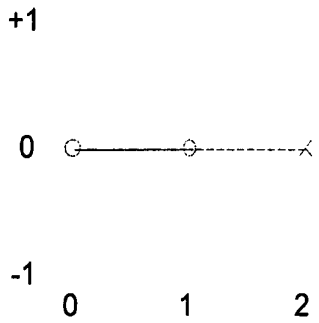


FIG.11A

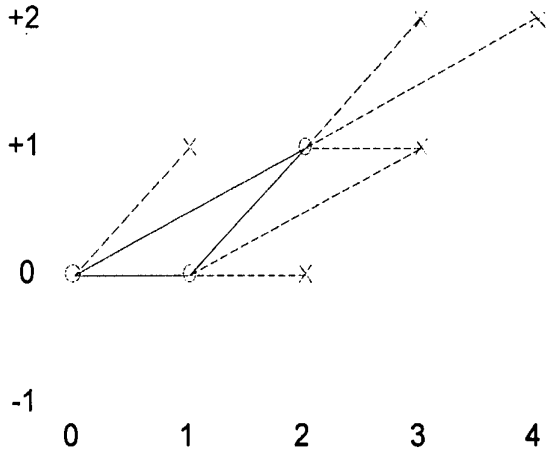


FIG.11B

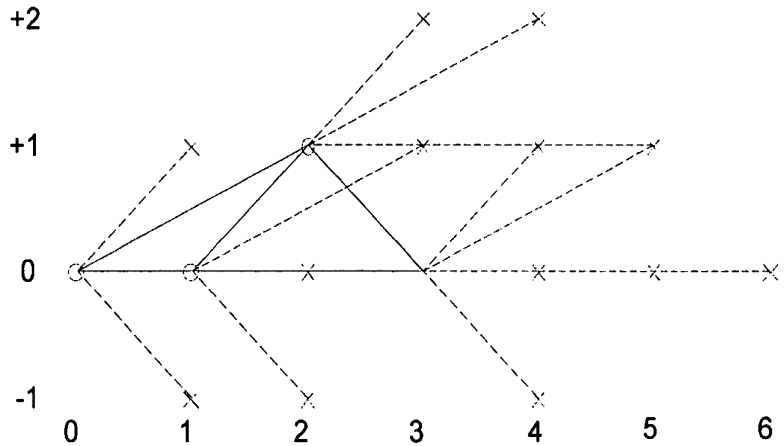


FIG.11C

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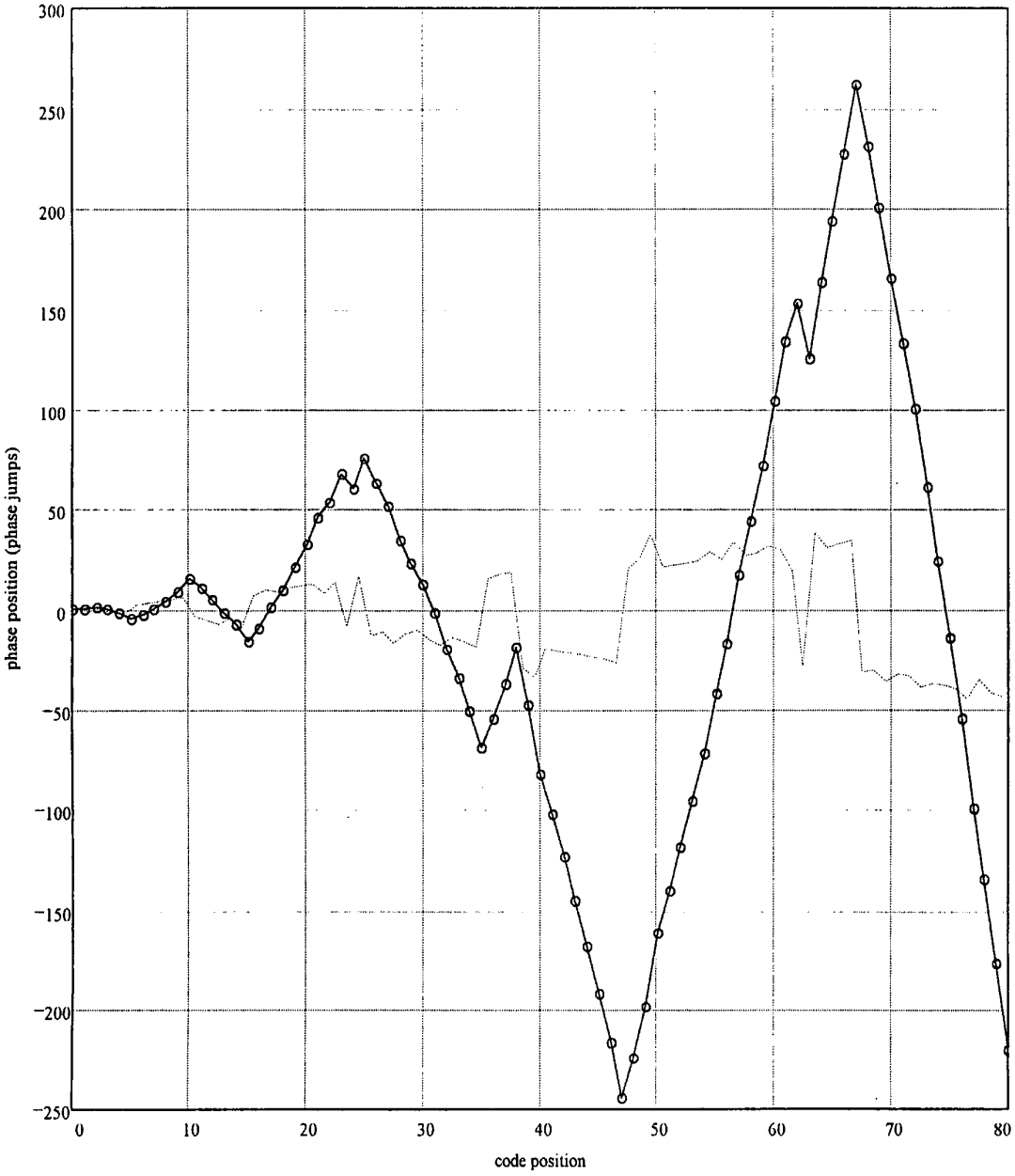

FIG.12A

DOCKET: 8/TTF/60

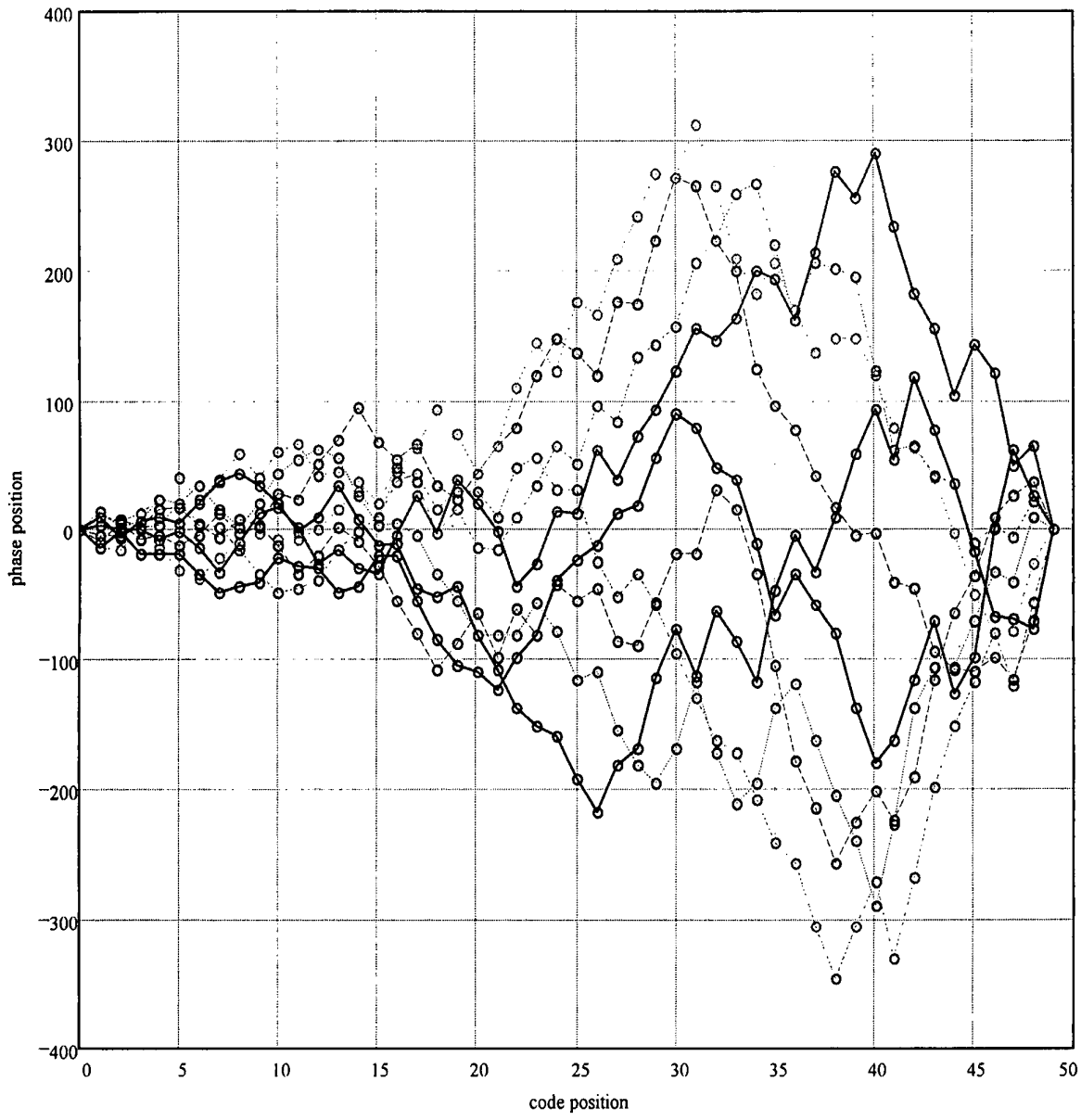

FIG.12B